

INTERNATIONAL SEARCH REPORT

PC 03/04788

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C22C26/00 B22F7/06 B01J3/06 B24D3/06 E21B10/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C22C B22F B01J B24D E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 525 178 A (HALL DAVID R) 25 June 1985 (1985-06-25) column 1, line 3 - line 22; figures 2,3 column 4, line 52 - line 58 ---	1-10
X	US 5 697 994 A (PACKER SCOTT M ET AL) 16 December 1997 (1997-12-16)	1-10
Y	column 6, line 3 - line 32 ---	11-13
Y	DATABASE WPI Section Ch, Week 200170 Derwent Publications Ltd., London, GB; Class L02, AN 2001-609219 XP002269004 & JP 2001 187431 A (SUMITOMO ELECTRIC IND CO), 10 July 2001 (2001-07-10) abstract --- -/-	11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

4 February 2004

Date of mailing of the international search report

13/02/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 960 643 A (LEMELSON JEROME H) 2 October 1990 (1990-10-02) column 3, line 52 - line 64; figure 1 -----	12, 13

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